

IICRC Health and Safety Technician (HST) certification Practice Exam (Sample)

Study Guide



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Questions

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- 1. What is a key purpose of precautionary statements in GHS?**
 - A. To increase sales of hazardous materials**
 - B. To encourage employee work efficiency**
 - C. To minimize or prevent adverse effects from product exposure**
 - D. To identify responsible parties for incidents**
- 2. Define the term “negligence” in a workplace context.**
 - A. Exceeding safety regulations**
 - B. Failure to exercise appropriate care**
 - C. Following all safety protocols**
 - D. Providing excessive training to employees**
- 3. Under what condition is an employee prohibited from wearing a tight-fitting respirator?**
 - A. When they are out of breath**
 - B. When facial hair interferes with the seal**
 - C. When working in confined spaces**
 - D. When the respirator is faulty**
- 4. Which of the following is an example of a bloodborne pathogen?**
 - A. Influenza virus**
 - B. HIV**
 - C. Common cold virus**
 - D. West Nile virus**
- 5. The basis for classifying a chemical's flammability is its _____.**
 - A. Explosion limit**
 - B. Flashpoint**
 - C. Boiling point**
 - D. Ignition temperature**

- 6. True or False: Class A fires involve materials that are capable of burning.**
- A. True**
 - B. False**
 - C. Only in some contexts**
 - D. Depends on the ignition source**
- 7. Which type of respirator is typically required for protection from particulates?**
- A. Half-mask respirator**
 - B. N95 respirator or higher efficiency masks**
 - C. Full-face respirator**
 - D. Dust mask**
- 8. How must respirators be stored to ensure their effectiveness?**
- A. Any accessible location**
 - B. In a cool, dry place**
 - C. To protect them from damage and contamination**
 - D. In the employee's personal lockers**
- 9. Should glove selection be based solely on employee preference?**
- A. Yes, always**
 - B. No, it must consider performance against hazards**
 - C. Only if the employee is highly trained**
 - D. Only in non-hazardous environments**
- 10. How often should emergency response plans be reviewed and updated?**
- A. Every five years**
 - B. Regularly, typically at least annually or when changes occur**
 - C. Only after an incident occurs**
 - D. Once every decade**

Answers

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1. C
2. B
3. B
4. B
5. B
6. A
7. B
8. C
9. B
10. B

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Explanations

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1. What is a key purpose of precautionary statements in GHS?

- A. To increase sales of hazardous materials**
- B. To encourage employee work efficiency**
- C. To minimize or prevent adverse effects from product exposure**
- D. To identify responsible parties for incidents**

Precautionary statements in the Globally Harmonized System (GHS) are designed specifically to minimize or prevent adverse effects from exposure to hazardous materials. These statements provide clear and concise information on how to handle substances safely, thus protecting users and bystanders from potential health risks. They outline recommended measures to take if exposure occurs, as well as best practices for storage and handling to reduce dangers. By including these precautionary measures, the GHS helps create a safer working environment and enhances overall safety culture within organizations. The emphasis is on protection and risk mitigation, which is essential in settings where hazardous materials are used. This proactive approach is a fundamental aspect of workplace safety and aligns with regulatory frameworks that aim to minimize risks associated with chemical exposures.

2. Define the term “negligence” in a workplace context.

- A. Exceeding safety regulations**
- B. Failure to exercise appropriate care**
- C. Following all safety protocols**
- D. Providing excessive training to employees**

In a workplace context, negligence refers to the failure to exercise appropriate care that a reasonably prudent person would have taken in a similar situation. This means that an individual or organization did not act with the caution or responsibility expected in order to prevent harm to employees, clients, or the environment. When negligence occurs, it can result in accidents, injuries, or even legal consequences, as it implies that the responsible party did not fulfill their duty of care. This concept is crucial in health and safety practices, as maintaining a safe work environment relies on individuals and organizations recognizing their responsibilities and acting accordingly. The other options do not capture the essence of negligence. Exceeding safety regulations is about surpassing acceptable limits, while following all safety protocols signifies proper adherence to guidelines and care. Providing excessive training may also not align with the principle of negligence, as it is generally beneficial and promotes safety rather than diminishes it.

3. Under what condition is an employee prohibited from wearing a tight-fitting respirator?

- A. When they are out of breath**
- B. When facial hair interferes with the seal**
- C. When working in confined spaces**
- D. When the respirator is faulty**

The correct condition under which an employee is prohibited from wearing a tight-fitting respirator is when facial hair interferes with the seal. Tight-fitting respirators rely on a good face seal to provide adequate protection from airborne contaminants. If there is facial hair, such as a beard or mustache, it can prevent the respirator from forming a proper seal against the skin. This can lead to air leakage around the edges of the mask, compromising the effectiveness of the respirator and potentially exposing the wearer to harmful substances. The importance of a good seal cannot be overstated, as even a small gap can significantly reduce the respiratory protection offered by the device. Therefore, individuals with facial hair that affects the fit of a tight-fitting respirator must either remove the facial hair or use a different type of respiratory protection that does not require a tight seal, such as a loose-fitting hood or helmet. Understanding the proper conditions for wearing respirators is crucial for maintaining health and safety in environments where respiratory hazards exist. This ensures that workers are adequately protected while performing their tasks.

4. Which of the following is an example of a bloodborne pathogen?

- A. Influenza virus**
- B. HIV**
- C. Common cold virus**
- D. West Nile virus**

Bloodborne pathogens are infectious microorganisms present in human blood that can cause disease in humans. These pathogens can be transmitted through blood or other potentially infectious materials. The primary example of a bloodborne pathogen is HIV (Human Immunodeficiency Virus), which is known to be transmitted through direct exposure to blood, sexual contact, and other bodily fluids. Other options such as the influenza virus, common cold virus, and West Nile virus are primarily transmitted through different routes. The influenza virus and common cold virus are respiratory pathogens spread mainly through respiratory droplets when an infected person coughs or sneezes. Meanwhile, West Nile virus is primarily transmitted by mosquitoes and not through blood in the same way as bloodborne pathogens like HIV. Therefore, HIV is correctly classified as a bloodborne pathogen due to its mechanism of transmission and the significant health risks it poses through blood contact.

5. The basis for classifying a chemical's flammability is its _____.

A. Explosion limit

B. Flashpoint

C. Boiling point

D. Ignition temperature

The classification of a chemical's flammability primarily hinges on its flashpoint. The flashpoint is the lowest temperature at which the vapor of a volatile substance can ignite in air when an ignition source is present. This temperature indicates the point at which there are enough vapors to form a combustible mixture with air, which is critical for assessing the potential for a fire hazard. Understanding the flashpoint is vital for safety in environments where chemicals are handled, stored, or used, as it helps determine appropriate safety measures such as storage conditions, handling procedures, and necessary firefighting equipment. Lower flashpoints indicate higher flammability risks and dictate more stringent safety protocols. The other options, while related to combustion, do not serve as the primary basis for flammability classification. The explosion limit pertains to the concentration range of a vapor in air that can lead to an explosion, while boiling point and ignition temperature relate to different aspects of the thermal behavior of substances, but do not directly reflect their flammability in the same way that flashpoint does.

6. True or False: Class A fires involve materials that are capable of burning.

A. True

B. False

C. Only in some contexts

D. Depends on the ignition source

Class A fires are defined as fires that involve ordinary combustible materials such as wood, paper, cloth, rubber, and some plastics. These materials are capable of burning and are generally found in homes and offices. The classification system for fires categorizes them based on the type of materials involved, and Class A specifically pertains to those materials that can ignite and sustain combustion. Understanding the nature of Class A fires is crucial for implementing appropriate firefighting strategies, as different classes of fires require different types of extinguishing agents. For instance, water is typically effective for Class A fires because it cools the burning material and helps suppress the flames. Other classifications of fires exist, such as Class B (flammable liquids), Class C (electrical fires), and others, which involve different types of combustible materials. Therefore, stating that Class A fires involve materials capable of burning is indeed true and aligns with the recognized definitions within fire safety protocols.

7. Which type of respirator is typically required for protection from particulates?

- A. Half-mask respirator**
- B. N95 respirator or higher efficiency masks**
- C. Full-face respirator**
- D. Dust mask**

The N95 respirator or higher efficiency masks are designed specifically to filter out an adequate level of particulate matter from the air, making them essential for environments where airborne particulates or contaminants are a concern. These masks are certified to capture at least 95% of very small (0.3 micron) test particles, which includes many harmful pathogens and dust. While a half-mask respirator and a full-face respirator can also offer protection against particulates, they require specific filters to achieve the level of filtration found in N95 respirators. Dust masks, on the other hand, provide a basic level of protection but are not rated for the same efficacy and might not adequately protect against finer particulates or infectious agents. This makes N95 or higher masks the preferred choice for ensuring a higher standard of respiratory protection in health and safety contexts.

8. How must respirators be stored to ensure their effectiveness?

- A. Any accessible location**
- B. In a cool, dry place**
- C. To protect them from damage and contamination**
- D. In the employee's personal lockers**

Respirators must be stored in a manner that protects them from damage and contamination to ensure their effectiveness. Proper storage is crucial because respirators can be exposed to various environmental factors that may compromise their integrity or functionality. Storing them in a location that shields them from dust, moisture, chemicals, and other potential contaminants is essential to maintaining their performance and ensuring they provide the intended level of protection. For example, if a respirator is left in an open area where it can accumulate dust or is exposed to chemical vapors, its sealing surfaces or filters could become compromised, leading to a reduction in the protection it offers when worn. Thus, storing respirators appropriately helps ensure they remain ready for use whenever necessary, maximizing the safety of the user. While other options may touch upon elements of proper storage, such as maintaining environmental conditions or personal storage practices, they do not encompass the comprehensive need to protect respirators from all forms of damage and contamination that could impact their effectiveness in a safety-critical situation.

9. Should glove selection be based solely on employee preference?

A. Yes, always

B. No, it must consider performance against hazards

C. Only if the employee is highly trained

D. Only in non-hazardous environments

Glove selection should be determined by considering the performance of the gloves against specific hazards rather than relying solely on employee preference. Different tasks and environments present various risks, such as chemicals, cuts, or heat, which necessitate using appropriate materials and designs to ensure adequate protection. While employee comfort and preference can play a role in compliance and wearability, the primary focus must be on the glove's ability to effectively safeguard users from relevant hazards. Selecting gloves that are not suited for the risks present can lead to dangerous situations, potentially resulting in injuries or exposure to harmful substances. Therefore, a thorough assessment of the hazards involved in a particular job is essential to ensure that the gloves provide the necessary level of protection, making safety the foremost priority in glove selection.

10. How often should emergency response plans be reviewed and updated?

A. Every five years

B. Regularly, typically at least annually or when changes occur

C. Only after an incident occurs

D. Once every decade

Emergency response plans are critical documents designed to guide organizations in effectively responding to emergencies. Regular reviews and updates ensure that these plans remain relevant, effective, and reflective of any changes in the organization, regulations, or potential hazards. Frequent review—typically at least annually or whenever significant changes occur—allows organizations to incorporate new information, address evolving risks, and amend procedures based on lessons learned from drills or actual incidents. This proactive approach helps to prevent complacency and ensures that all personnel are familiar with the current protocols, increasing safety and responsiveness when an emergency arises. While some other options suggest longer intervals between reviews, such an approach could lead to outdated information and unpreparedness, which could compromise safety during emergencies. Regular assessments are essential for maintaining the effectiveness and reliability of an emergency response plan.